



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 7  
25 FUNSTON ROAD  
KANSAS CITY, KANSAS 66115

FEB 22 1993

Site:	Maline Creek
ID #	MOD980631162
Event:	1.6
Other:	2-22-93

MEMORANDUM

SUBJECT: CertainTeed Transite Plant, St. Louis, Missouri,  
Site Asbestos Evaluation, 1/28/93 (SBR31)

FROM: Paul E. Beatty *Paul E. Beatty*  
Environmental Engineer, AMON/EMCM/ENSV

07CF

30290427



Superfund

TO: Ronald D. McCutcheon  
Branch Chief, EP&R/ENSV

0450

THRU: Joe Arello *JA*  
Chief, Air Monitoring Section, EMCM/ENSV

At the request of the Emergency Planning and Response Branch, Field Removal Section, the Air Monitoring Section conducted an inspection at the retired CertainTeed transite manufacturing facility in St. Louis, Missouri. The purpose of the inspection was to reinspect the site and determine if any ACM had been disturbed since the last inspection on 12/17/92.

The inspection was performed on January 28, 1993, beginning at 9:15 a.m. and concluding at 11:45 a.m. The weather conditions were as follows; temperature 45°F, west winds at 5-10 mph, and no cloud cover.

Upon arrival at the site, I spoke with Mark Kootman, of Branch Metal Co., who represented the property owner, PG Investments. He was informed of the purpose of the inspection.

I asked Mr. Kootman if he knew of any equipment and piping which had been removed from the northeast building, in which Branch Metal Co. is located. He said that PG Investments had some equipment removed. He did not know exactly when, but estimated sometime in September or October of 1992. Mr. Kootman said that he did not know anything about the excavation on the southeast side. He speculated that equipment was dropped out of the openings in the adjacent outside wall and loaded onto trucks and disposed of.

I explained to Mr. Kootman that some of the samples collected during the 12/17/92 visit contained asbestos and the material should not be disturbed because of the possibility of fiber release and exposure to the workers in adjacent areas of the building. The airborne asbestos fibers could escape into the outside air. Mr. Kootman acknowledged the hazard and said he had kept his workers away from the ACM.

Mr. Kootman said that they are currently looking for an asbestos abatement contractor to cleanup the ACM. One has not yet been found.

For additional site and sample information, please see the attached Site Diagram (Attachment 1), Sample Summary Sheet (Attachment 2), Chain of Custody Sheet (Attachment 3) and Sample Analysis (Attachment 4). Photographs (Attachment 5) were obtained of the sample sites and the areas inspected. The photographic negatives are attached to the original report.

I proceeded with the inspection of the facility site. All of the pipe diameters presented in this report are visual estimates. Measurement of the pipe lengths are estimated by pacing.

### The Northeast Building

The northeast building is currently used by Branch Metal Co. to store scrap metal. In the southeast end of the building there is a three story section adjacent to the southeast end wall which will be referred to as "area A". The adjoining room to the northwest of area A will be referred to as "area B", and the room northwest of area B will be referred to as "area C".

During the 12/17/92 inspection there was suspect ACM located in area A of the northeast building, under some cutoff metal hangers suspended from the first floor ceiling. The material had been disturbed, crushed and moved from its 12/17/92 location. The material is located in a aisle where forklift traffic had been observed. Samples SBR31-001 and SBR31-002 were obtained from the material on the floor. The friable block-type material was light gray and fibrous. Polarized light microscopy (PLM) analysis showed both samples to contain 25% chrysotile asbestos each. Sample analysis is attached (Attachment 4).

On the second floor of area A, the floor which was wet during the last inspection, had dried out. The 2nd floor did not appear to have been disturbed since the last inspection. There appeared to be small transite pieces and other suspect ACM scattered throughout the floor. SBR31-003 was obtained from a small pile of debris adjacent to the open window on the southeast end of the building. The sample was a thick paper material similar to aircell pipe insulation. There was other similar corrugated paper material observed in the pile. The sample was gray, fibrous and friable. PLM analysis showed the sample to contain 70% chrysotile asbestos.

Sample SBR31-004 was obtained from a metal structural post on the 2nd floor. The post was partially covered with a gray, fibrous, friable insulation material. The material could have been splattered there from an adjacent manufacturing process, and

similar material was seen in debris adjacent to the post. PLM analysis showed the sample to contain 70% chrysotile asbestos.

The 3rd floor appeared not to have been disturbed and was similar as it appeared during the last inspection. The floor was dry, and hoses and brooms were laying on the floor. The northeast side appeared reasonable clean, because it was being cleaned during the last inspection. The rest of the floor was covered with small debris. It appeared that some debris had been pushed out of the hole in the southeast wall. There was cementitious material on most horizontal surfaces, probably deposited during transite manufacturing. A piece of friable block-type insulating material was sampled (SBR31-005). The sample was gray, fibrous, and friable. PLM analysis showed the sample to contain 70% chrysotile asbestos.

Also located on the 3rd floor was a large pipe covered with a thick felt-type material. The material was not friable.

There were cut metal hangers suspended from the 3rd floor ceiling.

In the large room (area B) northwest of the three story area (area A), there is a large amount of a suspicious block-type insulation material on the floor. A sample obtained during the last inspection contained 85% chrysotile asbestos. The area had been disturbed. The material had been moved around, probably from the moving of dumpsters. Other suspect material observed throughout the middle of area B during the last inspection was not visible, probably because it had either been crushed into the dirt covered floor, pushed around or covered with scrap metal. During the inspection, I observed fork lift activity in the area.

An additional 25 linear feet (lf) of block-type insulated pipe was observed along the southwest wall. The insulation was in very poor condition, partially falling off of the pipe.

Area C of the northeast building appeared to be in similar condition to the last inspection. An additional 20 lf of block-type insulated pipe was observed along the southwest wall. The insulation was in very poor condition, and partially falling off of the pipe.

The excavated area on the southeast end of the building appeared undisturbed from the last inspection.

In summary, ACM and suspect ACM in area B and the first floor of area A were greatly disturbed from the last inspection. No additional pipe or equipment appeared to have been removed since the 12/17/92 inspection. The second and third floors of area A appeared to be very contaminated with suspect ACM. Areas C, and the 2nd and 3rd floors of area A and the excavation did not appear to have been disturbed since the last inspection.

### The Southwest Building

The insulated pipe and equipment did not appear to have been disturbed since the last inspection on 12/17/92. There has been some additional activity in the northwest end of the building where some scrap metal has been moved in.

Prior to the last inspection, the insulation on a pipe manifold located southwest of the warehouse was removed. It was covered with over 59 lf of pipe insulation.

Southwest of the southwest warehouse is a covered storage area. Located in the storage area are some large mixing vessels, probably used in transite manufacturing. There are small amounts of a gray, fibrous, friable material located on the vessels, especially around the inlets and outlets. Sample SBR31-006 was obtained from one of the vessels. PLM analysis showed the sample to contain 60% chrysotile and 10% crocidolite asbestos.

Before leaving the facility site, I met with Mr. Kootman. I told him of the disturbed ACM and repeated the health warnings and that it should not be disturbed. He said that it might have been disturbed while removing scrap metal from the area, in preparation for the ACM abatement.

### Attachments

1. Site Diagram, 2 pages.
2. Sample Summary Sheet, 1 page.
3. Chain of Custody Sheet, 1 page.
4. Sample Analysis, 5 pages.
5. Photographs, 18 pages.

cc: Alice Law, ARCP/ARBR/ARTX



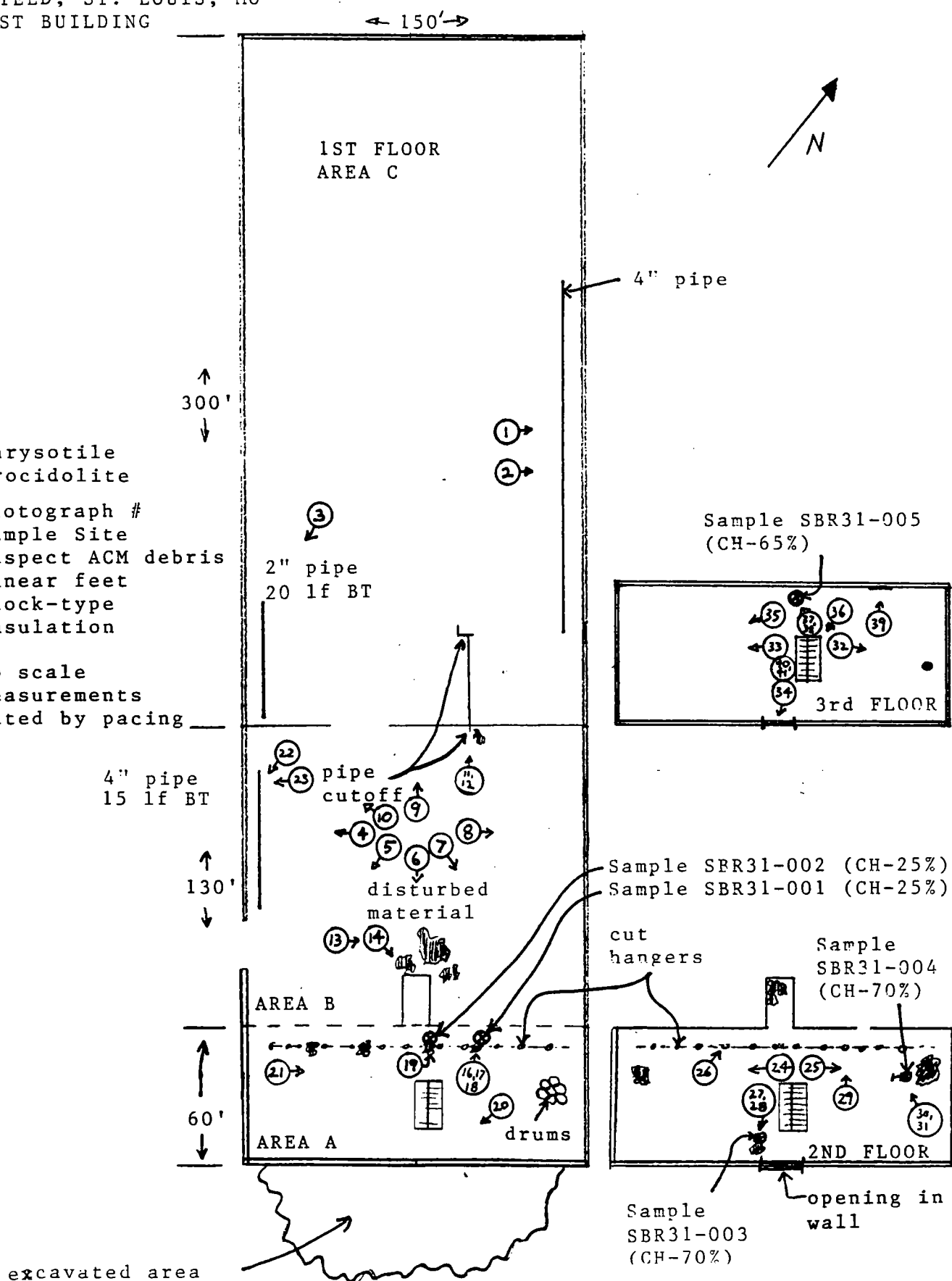
**ATTACHMENT 1**

CERTAINTEED, ST. LOUIS, MO  
 NORTHEAST BUILDING  
 1/28/93  
 SBR31

# LEGEND

CH - Chrysotile  
 CO - Crocidolite  
 \* - photograph #  
 ⊗ - Sample Site  
 ⊗ - Suspect ACM debris  
 lf - linear feet  
 BT - block-type insulation

-Not to scale  
 -All measurements  
 estimated by pacing

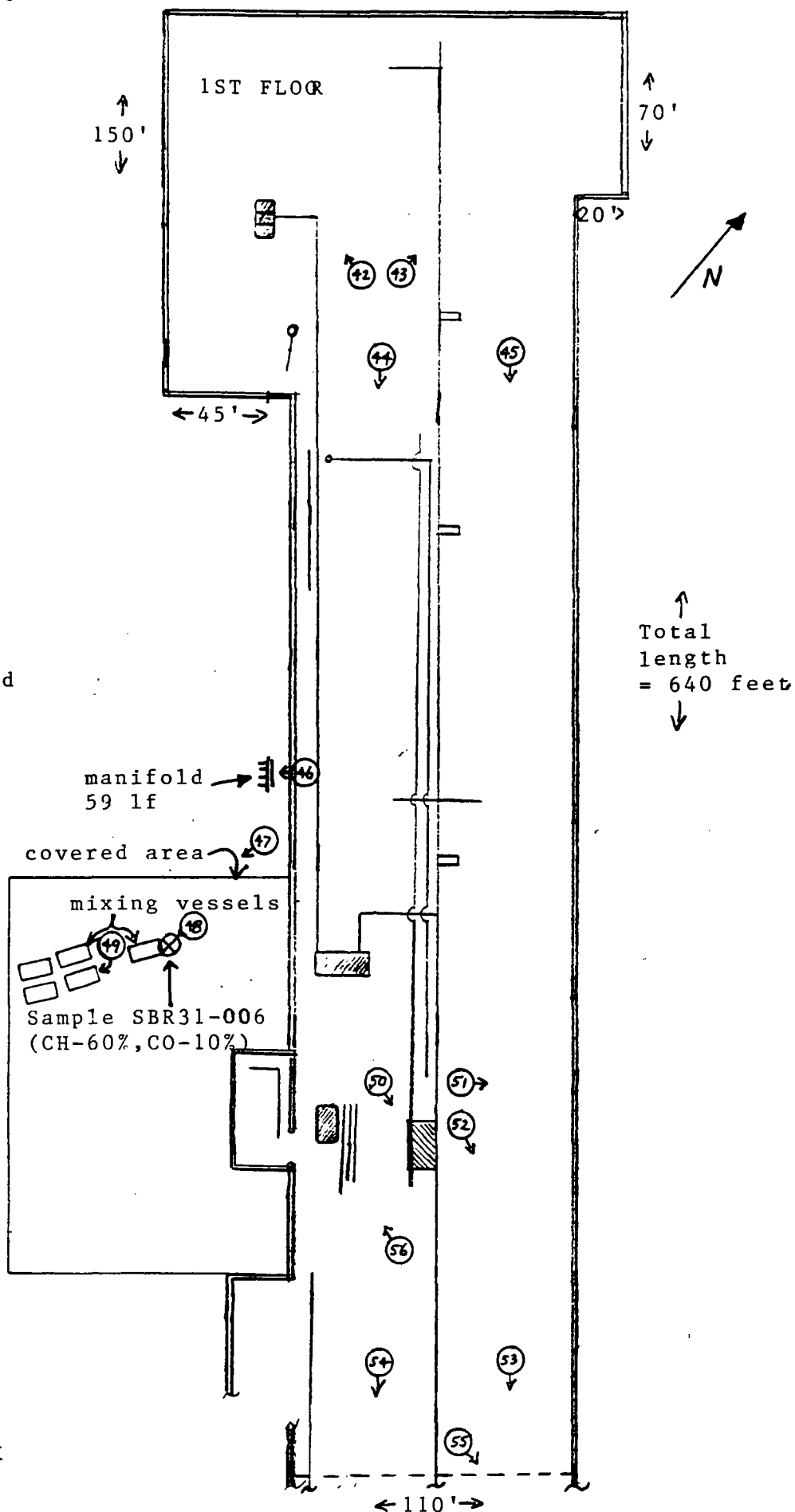
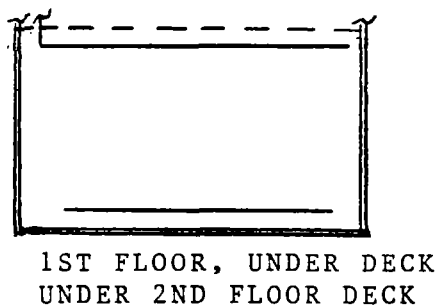
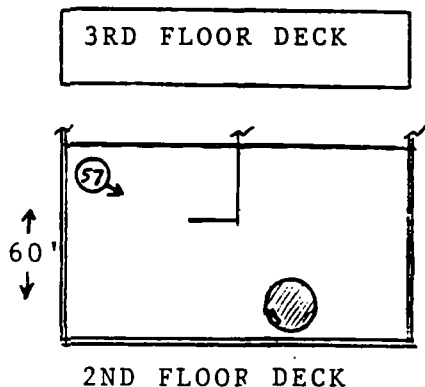


CERTAINTEED, ST. LOUIS, MO  
 SOUTHWEST BUILDING  
 1/28/93  
 SBR31

# LEGEND

CH - Chrysotile  
 CO - Crocidolite  
 AM - Amosite  
 ⊗ - Sample Site  
 # - Photograph #  
 lf - linear feet

-Not to scale  
 -All measurements estimated  
 by pacing



**ATTACHMENT 2**

# SAMPLE SUMMARY SHEET

Facility: CertainTeed

Address: St. Cyr Street, St. Louis, MO

Sampled by: Paul E. Beatty

Agency: U.S. EPA, Region VII

Date: 1/28/93 Activity #: SBR31

Sample#	Sample Site * (see site map)	Sample Description	Quantity of ACM	Analysis Results	Photo #
SBR31-001	NE building. 1st floor. On floor under cut hangers.	Light gray, friable, fibrous.	-	Chrysotile, 25%	17,18
SBR31-002	NE building. 1st floor. On floor under cut hangers.	Light gray, friable, fibrous.	-	Chrysotile, 25%	19
SBR31-003	NE building. 2nd floor debris pile.	Gray paper. Friable, fibrous.	-	Chrysotile, 70%	27,28
SBR31-004	NE building. 2nd floor. Metal post.	Gray, friable, fibrous. Similar to spray applied insulation.	-	Chrysotile, 70%	30,31
SBR31-005	NE building, 3rd floor.	Gray, friable, fibrous. Block-type insulation.	-	Chrysotile, 65%	37,38
SBR31-006	SW building. Covered area on SW side. Mixing vessel.	Gray, friable, fibrous.	-	Chrysotile, 60% Crocidolite, 10%	47,48

\* Locate on site diagram.  
(rev:3/4/92)

**ATTACHMENT 3**

m 2/1/93

CONTENTS OF SHIPMENT

DESCRIPTION OF SHIPMENT	MODE OF SHIPMENT
1. <u>1000</u> <u>kg</u> <u>of</u> <u>raw</u> <u>wool</u>	1. <u>air</u>
2. <u>1000</u> <u>kg</u> <u>of</u> <u>raw</u> <u>wool</u>	2. <u>air</u>
3. <u>1000</u> <u>kg</u> <u>of</u> <u>raw</u> <u>wool</u>	3. <u>air</u>
4. <u>1000</u> <u>kg</u> <u>of</u> <u>raw</u> <u>wool</u>	4. <u>air</u>
5. <u>1000</u> <u>kg</u> <u>of</u> <u>raw</u> <u>wool</u>	5. <u>air</u>
6. <u>1000</u> <u>kg</u> <u>of</u> <u>raw</u> <u>wool</u>	6. <u>air</u>
7. <u>1000</u> <u>kg</u> <u>of</u> <u>raw</u> <u>wool</u>	7. <u>air</u>
8. <u>1000</u> <u>kg</u> <u>of</u> <u>raw</u> <u>wool</u>	8. <u>air</u>
9. <u>1000</u> <u>kg</u> <u>of</u> <u>raw</u> <u>wool</u>	9. <u>air</u>
10. <u>1000</u> <u>kg</u> <u>of</u> <u>raw</u> <u>wool</u>	10. <u>air</u>
11. <u>1000</u> <u>kg</u> <u>of</u> <u>raw</u> <u>wool</u>	11. <u>air</u>
12. <u>1000</u> <u>kg</u> <u>of</u> <u>raw</u> <u>wool</u>	12. <u>air</u>
13. <u>1000</u> <u>kg</u> <u>of</u> <u>raw</u> <u>wool</u>	13. <u>air</u>
14. <u>1000</u> <u>kg</u> <u>of</u> <u>raw</u> <u>wool</u>	14. <u>air</u>
15. <u>1000</u> <u>kg</u> <u>of</u> <u>raw</u> <u>wool</u>	15. <u>air</u>
16. <u>1000</u> <u>kg</u> <u>of</u> <u>raw</u> <u>wool</u>	16. <u>air</u>
17. <u>1000</u> <u>kg</u> <u>of</u> <u>raw</u> <u>wool</u>	17. <u>air</u>
18. <u>1000</u> <u>kg</u> <u>of</u> <u>raw</u> <u>wool</u>	18. <u>air</u>
19. <u>1000</u> <u>kg</u> <u>of</u> <u>raw</u> <u>wool</u>	19. <u>air</u>
20. <u>1000</u> <u>kg</u> <u>of</u> <u>raw</u> <u>wool</u>	20. <u>air</u>
21. <u>1000</u> <u>kg</u> <u>of</u> <u>raw</u> <u>wool</u>	21. <u>air</u>
22. <u>1000</u> <u>kg</u> <u>of</u> <u>raw</u> <u>wool</u>	22. <u>air</u>
23. <u>1000</u> <u>kg</u> <u>of</u> <u>raw</u> <u>wool</u>	23. <u>air</u>
24. <u>1000</u> <u>kg</u> <u>of</u> <u>raw</u> <u>wool</u>	24. <u>air</u>
25. <u>1000</u> <u>kg</u> <u>of</u> <u>raw</u> <u>wool</u>	25. <u>air</u>
26. <u>1000</u> <u>kg</u> <u>of</u> <u>raw</u> <u>wool</u>	26. <u>air</u>
27. <u>1000</u> <u>kg</u> <u>of</u> <u>raw</u> <u>wool</u>	27. <u>air</u>
28. <u>1000</u> <u>kg</u> <u>of</u> <u>raw</u> <u>wool</u>	28. <u>air</u>
29. <u>1000</u> <u>kg</u> <u>of</u> <u>raw</u> <u>wool</u>	29. <u>air</u>
30. <u>1000</u> <u>kg</u> <u>of</u> <u>raw</u> <u>wool</u>	30. <u>air</u>
31. <u>1000</u> <u>kg</u> <u>of</u> <u>raw</u> <u>wool</u>	31. <u>air</u>
32. <u>1000</u> <u>kg</u> <u>of</u> <u>raw</u> <u>wool</u>	32. <u>air</u>
33. <u>1000</u> <u>kg</u> <u>of</u> <u>raw</u> <u>wool</u>	33. <u>air</u>
34. <u>1000</u> <u>kg</u> <u>of</u> <u>raw</u> <u>wool</u>	34. <u>air</u>
35. <u>1000</u> <u>kg</u> <u>of</u> <u>raw</u> <u>wool</u>	35. <u>air</u>
36. <u>1000</u> <u>kg</u> <u>of</u> <u>raw</u> <u>wool</u>	36. <u>air</u>
37. <u>1000</u> <u>kg</u> <u>of</u> <u>raw</u> <u>wool</u>	37. <u>air</u>
38. <u>1000</u> <u>kg</u> <u>of</u> <u>raw</u> <u>wool</u>	38. <u>air</u>
39. <u>1000</u> <u>kg</u> <u>of</u> <u>raw</u> <u>wool</u>	39. <u>air</u>
40. <u>1000</u> <u>kg</u> <u>of</u> <u>raw</u> <u>wool</u>	40. <u>air</u>
41. <u>1000</u> <u>kg</u> <u>of</u> <u>raw</u> <u>wool</u>	41. <u>air</u>
42. <u>1000</u> <u>kg</u> <u>of</u> <u>raw</u> <u>wool</u>	42. <u>air</u>
43. <u>1000</u> <u>kg</u> <u>of</u> <u>raw</u> <u>wool</u>	43. <u>air</u>
44. <u>1000</u> <u>kg</u> <u>of</u> <u>raw</u> <u>wool</u>	44. <u>air</u>
45. <u>1000</u> <u>kg</u> <u>of</u> <u>raw</u> <u>wool</u>	45. <u>air</u>
46. <u>1000</u> <u>kg</u> <u>of</u> <u>raw</u> <u>wool</u>	46. <u>air</u>
47. <u>1000</u> <u>kg</u> <u>of</u> <u>raw</u> <u>wool</u>	47. <u>air</u>
48. <u>1000</u> <u>kg</u> <u>of</u> <u>raw</u> <u>wool</u>	48. <u>air</u>
49. <u>1000</u> <u>kg</u> <u>of</u> <u>raw</u> <u>wool</u>	49. <u>air</u>
50. <u>1000</u> <u>kg</u> <u>of</u> <u>raw</u> <u>wool</u>	50. <u>air</u>
51. <u>1000</u> <u>kg</u> <u>of</u> <u>raw</u> <u>wool</u>	51. <u>air</u>
52. <u>1000</u> <u>kg</u> <u>of</u> <u>raw</u> <u>wool</u>	52. <u>air</u>
53. <u>1000</u> <u>kg</u> <u>of</u> <u>raw</u> <u>wool</u>	53. <u>air</u>
54. <u>1000</u> <u>kg</u> <u>of</u> <u>raw</u> <u>wool</u>	54. <u>air</u>
55. <u>1000</u> <u>kg</u> <u>of</u> <u>raw</u> <u>wool</u>	55. <u>air</u>
56. <u>1000</u> <u>kg</u> <u>of</u> <u>raw</u> <u>wool</u>	56. <u>air</u>
57. <u>1000</u> <u>kg</u> <u>of</u> <u>raw</u> <u>wool</u>	57. <u>air</u>
58. <u>1000</u> <u>kg</u> <u>of</u> <u>raw</u> <u>wool</u>	58. <u>air</u>
59. <u>1000</u> <u>kg</u> <u>of</u> <u>raw</u> <u>wool</u>	59. <u>air</u>

PERSONNEL CUSTODY RECORD7-FPA-9262 (Revised 5/85)

**ATTACHMENT 4**



## ANALYSIS REQUEST REPORT

VALIDATED DATA

FOR ACTIVITY: SBR31

BEATTY, P.

02/09/93 15:31:24

ALL REAL SAMPLES AND FIELD Q.C.

## \* FINAL REPORT

FY: 93 ACTIVITY: SBR31 DESCRIPTION: CERTAINTIED 2 LOCATION: ST. LOUIS MISSOURI  
STATUS: ACTIVE TYPE: SAMPLING - IN HOUSE ANALYSIS PROJECT: S02  
LABO DUE DATE IS 2/19/93. REPORT DUE DATE IS 2/18/93.  
INSPECTION DATE: 1/28/93 ALL SAMPLES RECEIVED DATE: 01/29/93  
ALL DATA APPROVED BY LABO DATE: 02/05/93 FINAL REPORT TRANSMITTED DATE: 00/00/00  
EXPECTED LABO TURNAROUND TIME IS 21 DAYS EXPECTED REPORT TURNAROUND TIME IS 21 DAYS  
ACTUAL LABO TURNAROUND TIME IS 7 DAYS ACTUAL REPORT TURNAROUND TIME IS 0 DAYS  
SITE CODE: SITE:

SAMP. NO.	QCC	M	DESCRIPTION	SAMPLE # STATUS	CITY	STATE	AIRS/ STORET LOC NO	LAY- SECT	ER	BEG. DATE	BEG. TIME	END. DATE	END. TIME
001	S		ACM ASBESTOS SAMPLE	1	ST. LOUIS	MISSOURI				01/28/93	:	01/28/93	:
002	S		ACM ASBESTOS SAMPLE	1	ST. LOUIS	MISSOURI				01/28/93	:	01/28/93	:
003	S		ACM ASBESTOS SAMPLE	1	ST. LOUIS	MISSOURI				01/28/93	:	01/28/93	:
004	S		ACM ASBESTOS SAMPLE	1	ST. LOUIS	MISSOURI				01/28/93	:	01/28/93	:
005	S		ACM ASBESTOS SAMPLE	1	ST. LOUIS	MISSOURI				01/28/93	:	01/28/93	:
006	S		ACM ASBESTOS SAMPLE	1	ST. LOUIS	MISSOURI				01/28/93	:	01/28/93	:

# EXPLANATION OF CODES AND INFORMATION ON ANALYSIS REQUEST DETAIL REPORT

## SAMPLE INFORMATION:

SAMP. NO. = SAMPLE IDENTIFICATION NUMBER (A 3-DIGIT NUMBER WHICH IN COMBINATION WITH THE ACTIVITY NUMBER AND QCC, PROVIDES AN UNIQUE NUMBER FOR EACH SAMPLE FOR IDENTIFICATION PURPOSES)

QCC = QUALITY CONTROL CODE (A ONE-LETTER CODE USED TO DESIGNATE SPECIFIC QC SAMPLES. THIS FIELD WILL BE BLANK FOR ALL NON-QC OR ACTUAL SAMPLES):

A = TRUE VALUE FOR CALIBRATION STANDARD  
 B = CONCENTRATION RESULTING FROM DUPLICATE LAB SPIKE  
 C = MEASURED VALUE FOR CALIBRATION STANDARD  
 D = MEASURED VALUE FOR FILED DUPLICATE  
 F = MEASURED VALUE FOR FIELD BLANK  
 G = MEASURED VALUE FOR METHOD STANDARD  
 H = TRUE VALUE FOR METHOD STANDARD  
 K = CONCENTRATION RESULTING FROM DUPLICATE FIELD SPIKE  
 L = MEASURED VALUE FOR LAB DUPLICATE  
 M = MEASURED VALUE FOR LAB BLANK  
 N = MEASURED VALUE FOR DUPLICATE FIELD SPIKE  
 P = MEASURED VALUE FOR PERFORMANCE STANDARD  
 R = CONCENTRATION RESULTING FROM LAB SPIKE  
 S = MEASURED VALUE FOR LAB SPIKE  
 T = TRUE VALUE OF PERFORMANCE STANDARD  
 W = MEASURED VALUE FOR DUPLICATE LAB SPIKE  
 Y = MEASURED VALUE FOR FIELD SPIKE  
 Z = CONCENTRATION RESULTING FROM FIELD SPIKE

M = MEDIA CODE (A ONE-LETTER CODE DESIGNATING THE MEDIA OF THE SAMPLE):

A = AIR  
 H = OTHER (DOES NOT FIT ANY OTHER CATEGORY)  
 S = SOLID (SOIL, SEDIMENT, SLUDGE)  
 T = TISSUE (PLANT & ANIMAL)  
 W = WATER (GROUND WATER, SURFACE WATER, WASTE WATER, DRINKING WATER)

DESCRIPTION = A SHORT DESCRIPTION OF THE LOCATION WHERE SAMPLE WAS COLLECTED

AIRS/STORET LOC. NO. = THE SPECIFIC LOCATION IDENTIFICATION NUMBER FOR EITHER OF THESE NATIONAL DATABASE SYSTEMS, AS APPROPRIATE

DATE/TIME INFORMATION = SPECIFIC INFORMATION REGARDING WHEN THE SAMPLE WAS COLLECTED

BEG. DATE = DATE SAMPLING WAS STARTED  
 BEG. TIME = TIME SAMPLING WAS STARTED  
 END DATE = DATE SAMPLING WAS COMPLETED  
 END TIME = TIME SAMPLING WAS COMPLETED

NOTE: A GRAB SAMPLE WILL CONTAIN ONLY BEG. DATE/TIME  
 A TIMED COMPOSITE SAMPLE WILL CONTAIN BOTH BEG AND END DATE/TIME TO DESIGNATE DURATION OF SAMPLE COLLECTION

OTHER CODES: V = VALIDATED

## ANALYTICAL RESULTS/MEASUREMENTS INFORMATION:

COMPOUND = MGP (MEDIA-GROUP-PARAMETER) CODE AND NAME OF THE MEASURED CONSTITUENT OR CHARACTERISTIC OF EACH SAMPLE

UNITS = SPECIFIC UNITS IN WHICH RESULTS ARE REPORTED:

C = CENTIGRADE (CELSIUS) DEGREES  
 CFS = CUBIC FEET PER SECOND  
 GPM = GALLONS PER MINUTE  
 IN = INCHES  
 I.D. = SPECIES IDENTIFICATION  
 KG = KILOGRAM  
 L = LITER  
 LB = POUNDS  
 MG = MILLIGRAMS (1 X 10<sup>-3</sup> GRAMS)  
 MGD = MILLION GALLONS PER DAY  
 MPH = MILES PER HOUR  
 MV = MILLIVOLT  
 M/F = MALE/FEMALE  
 M2 = SQUARE METER  
 M3 = CUBIC METER  
 NA = NOT APPLICABLE  
 NG = NANOGRAMS (1 X 10<sup>-9</sup> GRAMS)  
 NTU = NEPHELOMETRIC TURBIDITY UNITS  
 PC/L = PICO (1 X 10<sup>-12</sup>) CURRIES PER LITER  
 PG = PICOGRAMS (1 X 10<sup>-12</sup> GRAMS)  
 P/CM2 = PICOGRAMS PER SQUARE CENTIMETER  
 SCM = STANDARD CUBIC METER (1 ATM. 25 C)  
 SQ FT = SQUARE FEET  
 SU = STANDARD UNITS (PH)  
 UG = MICROGRAMS (1 X 10<sup>-6</sup> GRAMS)  
 UMHOS = MICROMHOS/CM (CONDUCTIVITY UNITS)  
 U/CC2 = MICROGRAMS PER 100 SQUARE CENTIMETERS  
 U/CM2 = MICROGRAMS PER SQUARE CENTIMETER  
 1000G = 1000 GALLONS  
 +/- = POSITIVE/NEGATIVE  
 # = NUMBER

DATA QUALIFIERS = SPECIFIC CODES USED IN CONJUNCTION WITH DATA VALUES TO PROVIDE ADDITIONAL INFORMATION ON THE REPORTED RESULTS, OR USED TO EXPLAIN THE ABSENCE OF A SPECIFIC VALUE:

BLANK = IF FIELD IS BLANK, NO REMARKS OR QUALIFIERS ARE PERTINENT. FOR FINAL REPORTED DATA, THIS MEANS THAT THE VALUES HAVE BEEN REVIEWED AND FOUND TO BE ACCEPTABLE FOR USE.

I = INVALID SAMPLE/DATA - VALUE NOT REPORTED  
 J = DATA REPORTED BUT NOT VALID BY APPROVED QC PROCEDURES  
 K = ACTUAL VALUE OF SAMPLE IS < VALUE REPORTED  
 L = ACTUAL VALUE OF SAMPLE IS > VALUE REPORTED  
 M = DETECTED BUT BELOW THE LEVEL OF REPORTED VALUE FOR ACCURATE QUANTIFICATION  
 O = PARAMETER NOT ANALYZED  
 U = ACTUAL VALUE OF SAMPLE IS < THE MEASUREMENT DETECTION LIMIT (REPORTED VALUE)

## ANALYSIS REQUEST DETAIL REPORT

ACTIVITY: 3-SBR31

VALIDATED DATA

COMPOUND	UNITS	001	002	003	004	005
SB02 CHRYSOTILE, BULK	%	25	25	70	70	65
SB03 AMOSITE, BULK	%	0.0	0.0	0.0	0.0	0.0
SB04 CROCIDOLITE, BULK	%	0.0	0.0	0.0	0.0	0.0
SB05 TREMOLITE, BULK	%	0.0	0.0	0.0	0.0	0.0
SB06 ACTINOLITE, BULK	%	0.0	0.0	0.0	0.0	0.0
SB07 ANTHOPHYLLITE, BULK	%	0.0	0.0	0.0	0.0	0.0
ZZ01 SAMPLE NUMBER	NA	001	002	003	004	005
ZZ02 ACTIVITY CODE	NA	SBR31	SBR31	SBR31	SBR31	SBR31

## ANALYSIS REQUEST DETAIL REPORT

ACTIVITY: 3-SBR31

VALIDATED DATA

COMPOUND	UNITS	006				
SB02 CHRYSOTILE, BULK	%	60				
SB03 AMOSITE, BULK	%	0.0				
SB04 CROCIDOLITE, BULK	%	10				
SB05 TREMOLITE, BULK	%	0.0				
SB06 ACTINOLITE, BULK	%	0.0				
SB07 ANTHOPHYLLITE, BULK	%	0.0				
ZZ01 SAMPLE NUMBER	NA	006				
ZZ02 ACTIVITY CODE	NA	SBR31				

VALIDATED DATA

ACTIVITY SBR31      CERTAINTED 2

THE PROJECT LEADER SHOULD CIRCLE ONE - STORET, AIRS, OR ARCHIVE.

CIRCLE ONE:      STORET      AIRS      ARCHIVE

FINAL DATA REPORT APPROVED BY PROJECT LEADER ON 02/09/93 15:31:24 BY Paul E. Batty.

**ATTACHMENT 5**



Photo #1

CertainTeed, St. Louis, MO

12/17/92

Activity #SBR19

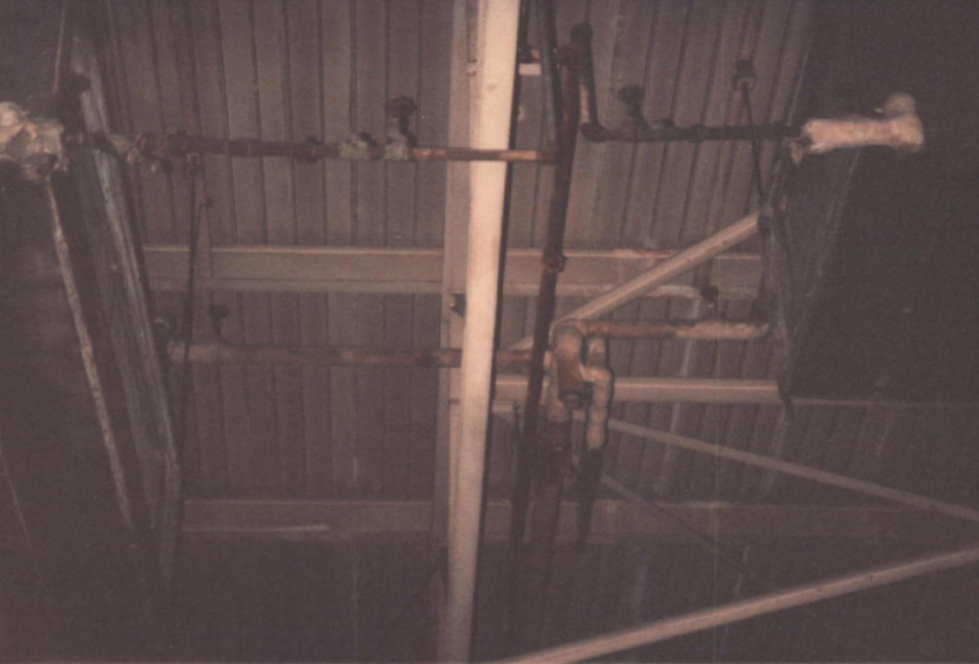
Inspector: Paul E. Beatty

PEB

CAPTION: Southwest building.

10" diameter pipe, covered with block-type insulation. Suspended from ceiling. Some damaged wrap.





DEC 1992

Photo #2

CertainTeed, St. Louis, MO

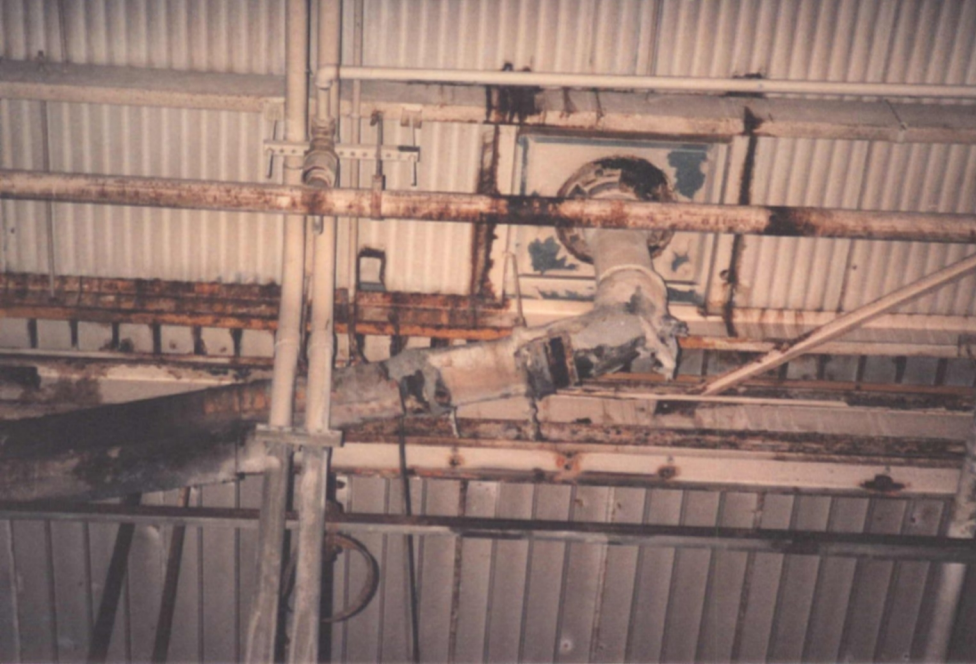
12/17/92

Activity #SBR19

Inspector: Paul E. Beatty PSB

CAPTION: Southwest building.

Ceiling heaters and connecting pipes. Some  
insulation missing.



DEC 1992

DEC 1992

Photo #3

CertainTeed, St. Louis, MO

12/17/92

Activity #SBR19

Inspector: Paul E. Beatty PEB

CAPTION: Southwest building.  
Insulated roof drain pipe with damaged  
insulation.



Photo #4

CertainTeed, St. Louis, MO

12/17/92

Activity #SBR19

Inspector: Paul E. Beatty PJB

CAPTION: Southwest building.

Pipe with deteriorating paper wrap.



Photo #5

CertainTeed, St. Louis, MO

12/17/92

Activity #SBR19

Inspector: Paul E. Beatty

PEB

CAPTION: Southwest building.

Sample Site SBR19-001.

Equipment covered with block-type insulation.

Some of the insulation has fallen onto floor.





Photo #6

CertainTeed, St. Louis, MO

12/17/92

Activity #SBR19

Inspector: Paul E. Beatty P&B

CAPTION: Southwest building.

Sample Site SBR19-001 obtained from piece of  
block-type insulation located underneath  
equipment.



Photo #7

CertainTeed, St. Louis, MO

12/17/92

Activity #SBR19

Inspector: Paul E. Beatty



CAPTION: Southwest building.

Cutoff pipes laying on the floor.

Sample Site SBR19-002 obtained from pipe on right. Pipe covered with a heavy woven cloth material.



DEC 1992

Photo #8

CertainTeed, St. Louis, MO

12/17/92

Activity #SBR19

Inspector: Paul E. Beatty PEB

CAPTION: Southwest building.

Sample Site SBR19-002.

Heavy woven cloth pipe insulation.



2661 DEC 1992

Photo #9

CertainTeed, St. Louis, MO  
12/17/92

Activity #SBR19

Inspector: Paul E. Beatty P&B

CAPTION: Southwest building.  
Deteriorating pipe insulation in bathroom.



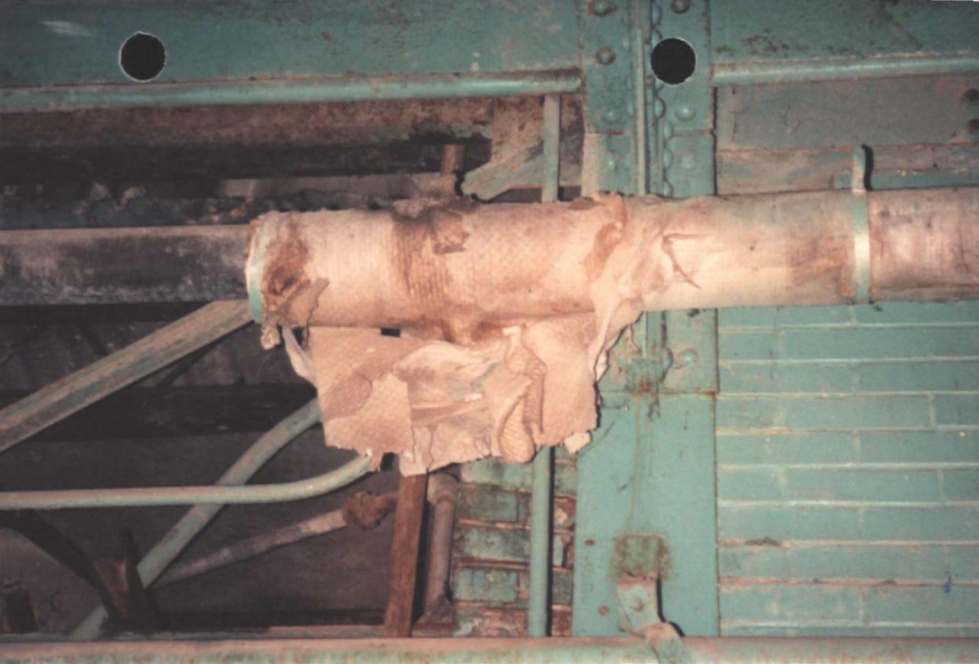


Photo #10

CertainTeed, St. Louis, MO

12/17/92

Activity #SBR19

Inspector: Paul E. Beatty PB

CAPTION: Southwest building.

Deteriorating paper-type pipe insulation.



DEC 1992

Photo #11

CertainTeed, St. Louis, MO  
12/17/92

Activity #SBR19

Inspector: Paul E. Beatty P.E.B.

CAPTION: Southwest building.

Sample Site SBR19-003, obtained from the paper-type pipe insulation on floor underneath the deteriorating pipe insulation in Photo #10.



Photo #12

CertainTeed, St. Louis, MO

12/17/92

Activity #SBR19

Inspector: Paul E. Beatty PEB

CAPTION: Southwest building.

Damaged pipe insulation.

Sample SBR19-004 obtained from insulation on  
floor under the pipe.



Photo #13

CertainFeed, St. Louis, MO

12/17/92

Activity #SBR19

Inspector: Paul E. Beatty PB

CAPTION: Southwest building.

Sample Site SBR19-004.

Block-type pipe insulation on floor.





DEC 1992

Photo #14

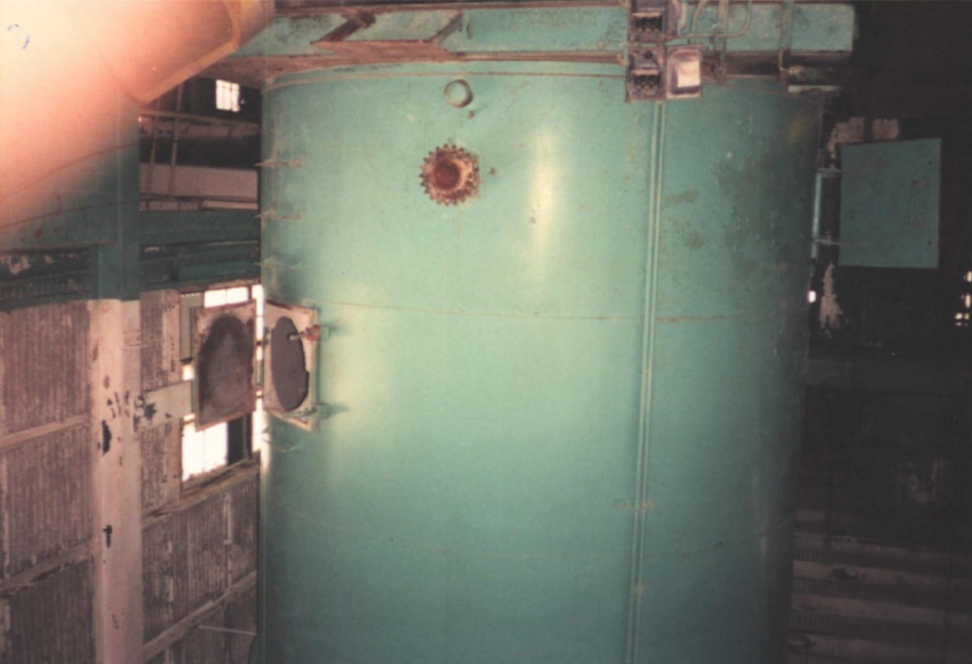
CertainTeed, St. Louis, MO

12/17/92

Activity #SBR19

Inspector: Paul E. Beatty PEB

CAPTION: Southwest building, 2nd floor.  
Sample Site SBR19-005.  
Damaged block-type pipe insulation.



2664 DEC 1992

Photo #15

CertainTeed, St. Louis, MO

12/17/92

Activity #SBR19

Inspector: Paul E. Beatty PEB

CAPTION: Southwest building, 2nd floor.

Large mixing vessel.

Sample Site SBR19-006 obtained from hatchway on  
right.



Photo #16

CertainTeed, St. Louis, MO

12/17/92

Activity #SBR19

Inspector: Paul E. Beatty PB

CAPTION: Southwest building.  
Sample Site SBR19-006.  
From mixing vessel hatchway.



Photo #17

CertainTeed, St. Louis, MO  
12/17/92

Activity #SBR19

Inspector: Paul E. Beatty PBB

CAPTION: Northeast building, area A, 2nd floor.  
Sample Site SBR19-007.





Photo #18

CertainTeed, St. Louis, MO

12/17/92

Activity #SBR19

Inspector: Paul E. Beatty P&B

CAPTION: Northeast building, area A, 2nd floor.  
Sample Site SBR19-007.

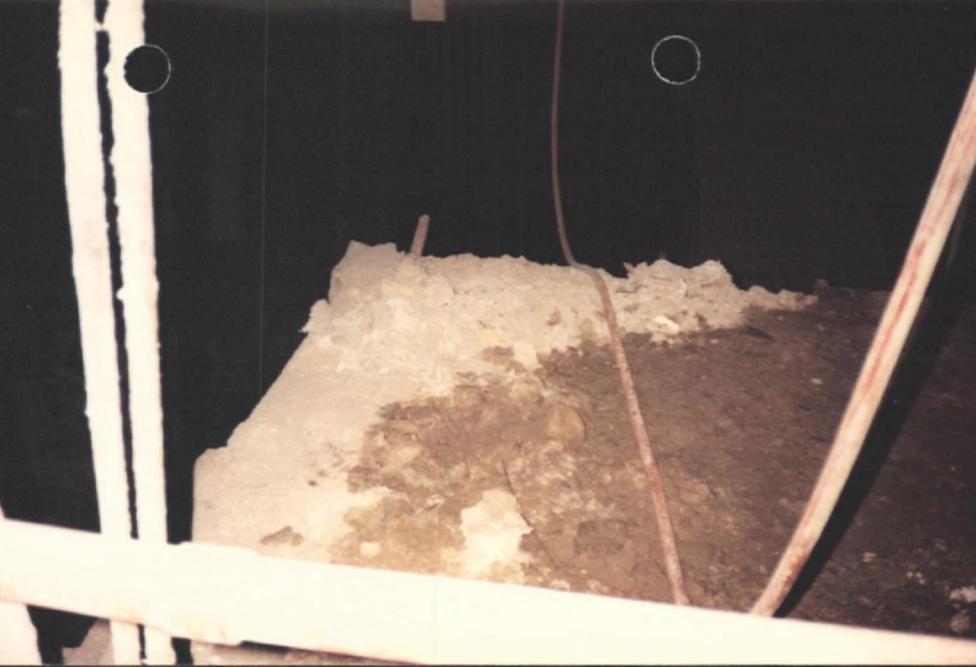


Photo #19

CertainTeed, St. Louis, MO

12/17/92

Activity #SBR19

Inspector: Paul E. Beatty PEB

CAPTION: Northeast building, from area A to area B, 2nd floor.



DEC 1992

DEC 1992



Photo #20

CertainTeed, St. Louis, MO

12/17/92

Activity #SBR19

Inspector: Paul E. Beatty

PJB

CAPTION: Northeast building, area A, 1st floor.  
Cut off hanger, suspended from ceiling.



Photo #21

CertainTeed, St. Louis, MO

12/17/92

Activity #SBR19

Inspector: Paul E. Beatty

PEB

CAPTION: Northeast building, area A, 1st floor.  
Piece of suspect ACM located underneath cut  
hanger.





Photo #22

CertainTeed, St. Louis, MO

12/17/92

Activity #SBR19

Inspector: Paul E. Beatty PEB

CAPTION: Northeast building, area A, 1st floor.  
Drums full of metal scrap.  
Oily spill under drums.



Photo #23

CertainTeed, St. Louis, MO

12/17/92

Activity #SBR19

Inspector: Paul E. Beatty PEB

CAPTION: Northeast building, Area B.  
Suspect ACM on floor.



Photo #24

CertainTeed, St. Louis, MO

12/17/92

Activity #SBR19

Inspector: Paul E. Beatty

P&B

CAPTION: Northeast building, area B.

Sample Site SBR19-008. General area.

Suspect ACM on floor.



DEC 1992

Photo #25

CertainTeed, St. Louis, MO

12/17/92

Activity #SBR19

Inspector: Paul E. Beatty PEB

CAPTION: Northeast building, area B.  
Sample Site SBR19-008. Closeup.  
Suspect ACM on floor.





Photo #26

CertainTeed, St. Louis, MO

12/17/92

Activity #SBR19

Inspector: Paul E. Beatty PEB

CAPTION: Northeast building, area B.

Suspect ACM laying on floor under cutoff pipe..





Photo #27

CertainTeed, St. Louis, MO

12/17/92

Activity #SBR19

Inspector: Paul E. Beatty PEB

CAPTION: Northeast building, area B.  
Suspect ACM on floor.

DEC 1992



DEC 1992





Photo #28

CertainTeed, St. Louis, MO

12/17/92

Activity #SBR19

Inspector: Paul E. Beatty PEB

CAPTION: Northeast building, area C.  
Cutoff pipe with loose insulation.

DEC 1992



DEC 1992





Photo #29

CertainTeed, St. Louis, MO

12/17/92

Activity #SBR19

Inspector: Paul E. Beatty PSB

CAPTION: Northeast building, area C.  
Intact insulated pipe.  
Towards dividing wall with area B.







Photo #30

CertainTeed, St. Louis, MO

12/17/92

Activity #SBR19

Inspector: Paul E. Beatty

PSB

CAPTION: Northeast building, southeast wall.

Note: Openings from 2nd and 3rd floors of Area  
A. Debris outline on wall. Fresh excavation  
and brick debris.

DEC 1992



DEC 1992





Photo #31

CertainTeed, St. Louis, MO

12/17/92

Activity #SBR19

Inspector: Paul E. Beatty PEB

CAPTION: Northeast building, southeast wall.  
Sample Site SBR19-009. General area.

DEC



DEC 1992





Photo #32

CertainTeed, St. Louis, MO

12/17/92

Activity #SBR19

Inspector: Paul E. Beatty PEB

CAPTION: Northeast building, southeast wall.  
Sample Site SBR19-009. Closeup.

